

Abstract

The present invention provides a method of producing high-purity DAM with high productivity while maintaining safety, by controlling the gas composition in a gas phase portion of a reactor within a predetermined range. The present invention relates to a method of producing a dialkylaminoalkyl (meth)acrylate quaternary salt by supplying a dialkylaminoalkyl (meth)acrylate, methyl chloride, and water to a reactor, wherein a reaction is carried out while controlling the concentration of oxygen ($[O_2]$) at 3 to 12 vol.%, the concentration of methyl chloride ($[MC]$) at 22 to 80 vol.%, and the ratio of oxygen concentration to methyl chloride concentration ($[O_2]/[MC]$) at 0.05 to 0.5, in the gas phase portion of the reactor.